

REMARKS

Claims 7, 10, 12, 13, and 17 are pending in the application. In the final Office Action of February 11, 2008, the Examiner rejected claims 7, 10, 12, 13, and 17 under 35 U.S.C. § 103(a) as being unpatentable over Narang, et al. (U.S. Patent 6,168,885) in view of Schneider, et al. (U.S. Patent 6,180,281) in view of Gozdz, et al (U.S. Patent 5,840,087) in view of Kumeuchi, et al. (U.S. Patent 6,156,080) in view of Takamiya, et al. (U.S. 6,150,455).

Applicants respectfully traverse the rejection and address the Examiner's disposition below. Claims 7 and 17 have been amended.

Independent claims 7 and 17, each as amended, each claim subject matter relating to forming gel-electrolyte layers on both sides of a positive electrode and a negative electrode. One of the solid-electrolyte layers formed on the positive electrode and one of the gel-electrolyte layers formed on the negative electrode face each other. After pressing, the positive electrode and negative electrode are wound. The wound electrodes are inserted into a film pack. After inserting the wound electrodes into the film pack, the wound electrodes are subjected to heat treatment so that gel-electrolyte layers formed on the positive electrode and the gel-electrolyte layers formed on the negative electrode are integrated with each other into one continuous seamless layer. The gel-electrolyte layers comprises $\text{LiC}_4\text{F}_9\text{SO}_3$. The matrix polymer is any one of matrix polymer is any one of polytetrafluoroethylene, polyhexafluoropropylene, polyethylene oxide, polypropylene oxide, polyphosphagen, polysiloxane, polyvinyl alcohol, styrene-butadiene rubber, nitrile-butadiene rubber, polystyrene or polycarbonate.

This is unlike Narang in view of Schneider in view of Gozdz in view of Kumeuchi in view of Takamiya, which fail to disclose or suggest a matrix polymer that is any one of matrix polymer is any one of polytetrafluoroethylene, polyhexafluoropropylene, polyethylene oxide, polypropylene oxide, polyphosphagen, polysiloxane, polyvinyl alcohol, styrene-butadiene rubber, nitrile-butadiene rubber, polystyrene or polycarbonate. None of the cited references teach or suggest Applicants' claimed matrix polymer material.

For at least these reasons, Narang in view of Schneider in view of Gozdz in view of Kumeuchi in view of Takamiya fails to teach or suggest claims 7 and 17.


Claims 10, 12, and 13 depend directly or indirectly from claim 7 and are therefore allowable for at least the same reasons that claim 7 is allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

CONCLUSION

In view of the foregoing, it is submitted that claims 7, 10, 12, 13, and 17 are patentable. It is therefore submitted that the application is in condition for allowance. Notice to that effect is respectfully requested.

Respectfully submitted,

 (Reg. No. 45,034)
Christopher P. Rauch
SONNENSCHNEIN, NATH & ROSENTHAL LLP
P.O. Box #061080
Wacker Drive Station - Sears Tower
Chicago, IL 60606-1080
Telephone 312/876-2606
Customer #26263
Attorneys for Applicant(s)